

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:
SETH D. LEVY
SUITE 2400
865 SOUTH FIGUEROA STREET
LOS ANGELES, CA 90017-2566

PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference 67789-377	Date of mailing (day/month/year) 29 DEC 2005
International application No. PCT/US05/11466	International filing date (day/month/year) 05 April 2005 (05.04.2005)
Applicant CEDARS SINAI MEDICAL CENTER	

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:
 The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46).

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes, 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 338.62.70.

For more detailed instructions, see the notes on the accompanying sheet.
2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3. ☐ With regard to the protest against payment of two additional fees under Rule 40.2, the applicant is notified that:
 - ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices;
 - ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.
4. **Reminders**

 Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

 The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

 Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 36 months from the priority date (in some Offices even later); otherwise, the applicant must, within 30 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

 In respect of other designated Offices, the time limit of 30 months (or later) will apply even if a demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22315-1450 Facsimile No. (571) 273-3201	Authorized officer Janet L. Gapp-Gard <i>J. Roberts for</i> Telephone No. (571) 272-0500
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Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

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Davis Wright Tremaine LLP

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PATENT COOPERATION TREATY

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 67289-377	FOR FURTHER ACTION <small>see Form PCT/ISA/210 as well as, where applicable, item 3.b. below.</small>	
International application No. PCT/US05/11466	International filing date (day/month/year) 05 April 2005 (05.04.2005)	(Earliest) Priority Date (day/month/year) 06 April 2004 (06.04.2004)
Applicant CEDARS SINAI MEDICAL CENTER		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International search report consists of a total of 3 sheets.
☒ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the Report**

a. With regard to the language, the international search was carried out on the basis of:
☒ the international application in the language in which it was filed.
☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box No. II)

3. ☐ Unity of invention is lacking (See Box No. III)

4. With regard to the title,
☒ the text is approved as submitted by the applicant.
☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,
☒ the text is approved as submitted by the applicant.
☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,
a. the figure of the drawings to be published with the abstract is Figure No. 1.
☒ as suggested by the applicant.
☐ as selected by this Authority, because the applicant failed to suggest a figure.
☐ as selected by this Authority, because this figure better characterizes the invention.
b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/1466

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7): A61N 43/04; C12N 1/509

US CL.: 514/44; 435/320.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S.: 514/44; 435/320.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	SHARIF et al. AAV serotype dependent apolipoprotein A-I Milano gene expression. <i>Atherosclerosis</i> , August 2003, Vol. 181, No. 2, pages 361-369.	1, 35
X	PASCHKE et al. Helper dependent adenoviral vector mediated long term expression of human apolipoprotein A-I reduces atherosclerosis in apo E-deficient mice. <i>Gene</i> , March 2004, Vol. 327, No. 2, pages 153-160.	1, 3, 8, 10-13, 15-17, 19-31, 55

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Source category of cited documents:

"X" Document defining the general state of the art which is not considered to be of particular relevance.

"P" Earlier publication or patent published on or after the international filing date.

"I" Document which may throw doubt on priority claims or which is cited to establish the publication date of another citation or other special reason (as specified).

"O" Document referring to oral disclosure, use, exhibition or other means.

"F" Document published prior to the international filing date but later than the priority date claimed.

"T" Later document published after the international filing date or priority date but not in conflict with the applicant's claimed invention, the principle or theory underlying the invention.

"X" Document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone.

"Y" Document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other cited documents, such combination being obvious to a person skilled in the art.

"E" Document member of the same patent family.

Date of the actual completion of the international search

12 December 2005 (12.12.2005)

Date of mailing of the international search report

29 DEC 2005

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Fees/fees No. (571) 273-3201

Authorized officer

Janet L. Epps Ford

Telephone No. (571) 273-0500

J. Roberts for

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/14866

Continuation of R. FIELDS SEARCHED Item 3:
CAPlus, Medline, USPAT, EPO, JPO, Derwent
Search terms: apolipoprotein A1, A1 isoform, apolipoprotein A1

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
SETH D. LEVY
SUITE 3400
865 SOUTH BOULDERIA STREET
LOS ANGELES, CA 90017-2566

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing
(day/month/year)

29 Dec 2005

Applicant's or agent's file reference

FOR FURTHER ACTION

See paragraph 2 below

67789-377

International application No.

International filing date (day/month/year)

Priority date (day/month/year)

PCT/US05/1466

05 April 2005 (05.04.2005)

06 April 2004 (06.04.2004)

International Patent Classification (IPC) or both national classification and IPC

IPC(7): A01N 43/04; C12N 1/00 and US Cl.: 514/44; 438/30

Applicant

CEDARS-SINAI MEDICAL CENTER

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66bis(b); the written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further actions, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/US
Mail Stop PCT, AIA/ISA/US
Commission for Patents
P.O. Box 1450
Alexandria, Virginia 22304-1450

Date of completion of this
opinion

12 December 2005 (12.12.2005)

Authorized officer

Janet L. Epps-Ford

Telephone No. (571) 272-6836

Processing No. (571) 273-321

Form PCT/ISA/237 (cover sheet) (April 2005)

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US95/11466

Box No. 1 Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of:

- ☒ the international application in the language in which it was filed
☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing
☐ table(s) related to the sequence listing

b. format of material

- ☐ on paper
☐ in electronic form

c. time of filing/furnishing

- ☐ contained in the international application as filed,
☐ filed together with the international application in electronic form,
☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International Application No.
PCT/US2015/1466

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims 2, 3, 7, 9, 14, 16, 28, 32, 34	YES
	Claims 1, 3, 8, 10-13, 15-17, 19-27, 29-31, 35	NO
Inventive step (IS)	Claims 2, 4-7, 9, 14, 18, 28, 32-35	YES
	Claims 1, 3, 8, 10-13, 15-17, 19-27, 29-31, 35	NO
Industrial applicability (IA)	Claims 1-35	YES
	Claims NONE	NO

2. Citations and explanations:

Claims 1, 3, 8, 10-13, 15-17, 19-27, 29-31, and 35 lack novelty under PCT Article 33(2) as being anticipated by Pastore et al.

Pastore et al. teach helper-dependent adenoviral vector-mediated long-term expression of apolipoprotein A1, wherein expression of human Apo A1 reduces atherosclerosis in an apo E-deficient mouse.

Claims 1, 3, 8, 10-13, 15-17, 19-27, 29-31, and 35 lack an inventive step under PCT Article 33(3) as being obvious over Pastore et al. for the reasons set forth above.

Claims 1-35 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.